

ABS X-TREME X130 ESD– Spec Sheet

(to be used on FDM® rapid prototyping machines)

ABS X-Treme X130 ESD is a electrostatic dissipative material available in black. It has balanced properties and is suitable for a wide variety of applications e. g. prototypes, jigs and fixtures for handling ESD sensitive components.

Mechanical Properties	Value	Unit	Test Method
Tensile Modulus	2063	MPa	ASTM D638
Tensile Stress, Type I, 5mm/min	24	MPa	ASTM D638
Tensile Strain, Type I, 5mm/min	7.0	%	ASTM D638
Flexural Modulus 1.3mm/min	1984	MPa	ASTM D290
Izod impact, notched, 23 °C	162	J/m	ASTM D256
Izod impact, unnotched, 23 °C	337	J/m	ASTM D256

Electrical Properties	Value	Unit	Test Method
Surface Resistivity	10*10 ⁸	Ohm*cm	ASTM D257

Thermal Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D648
Coefficient of thermal expansion – flow	76.3	µm/(m*°C)	ASTM E831

Physical Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm	104	°C	ASTM D648
Coefficient of thermal expansion – flow	76.0	µm/(m*°C)	ASTM E831
Density	1.04	g/ccm	ASTM D792

Flame Characteristics	Test Method
UL94 Flame Class Rating, 3.0mm	UL94

The given values are typical values only, which are not intended for design or specification purposes. Test parts were printed on a Stratasys® Fortus 380 mc printer under standard parameters. All parts were printed in flat XY-orientation.

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